

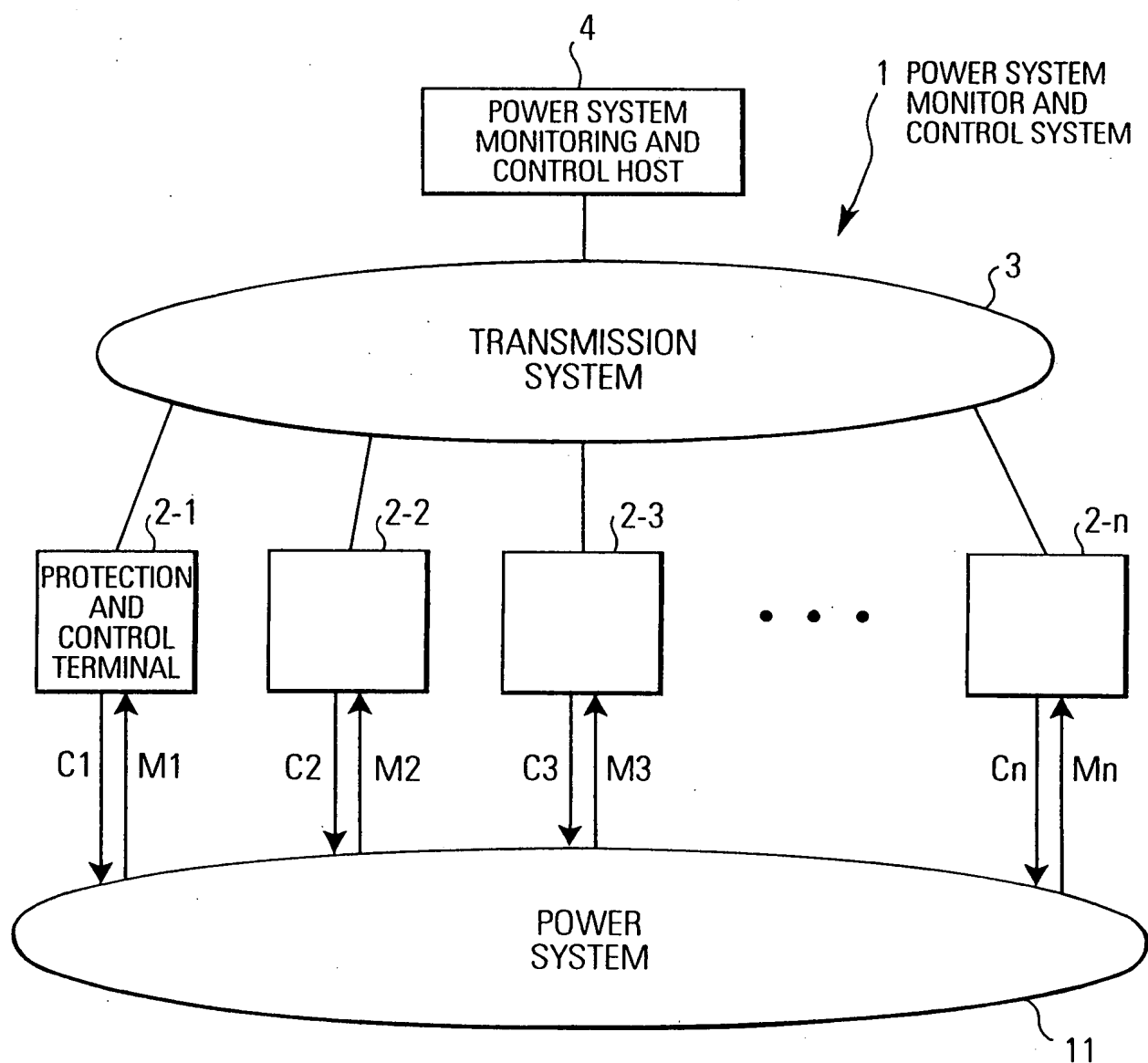
FIG. 1

FIG.2

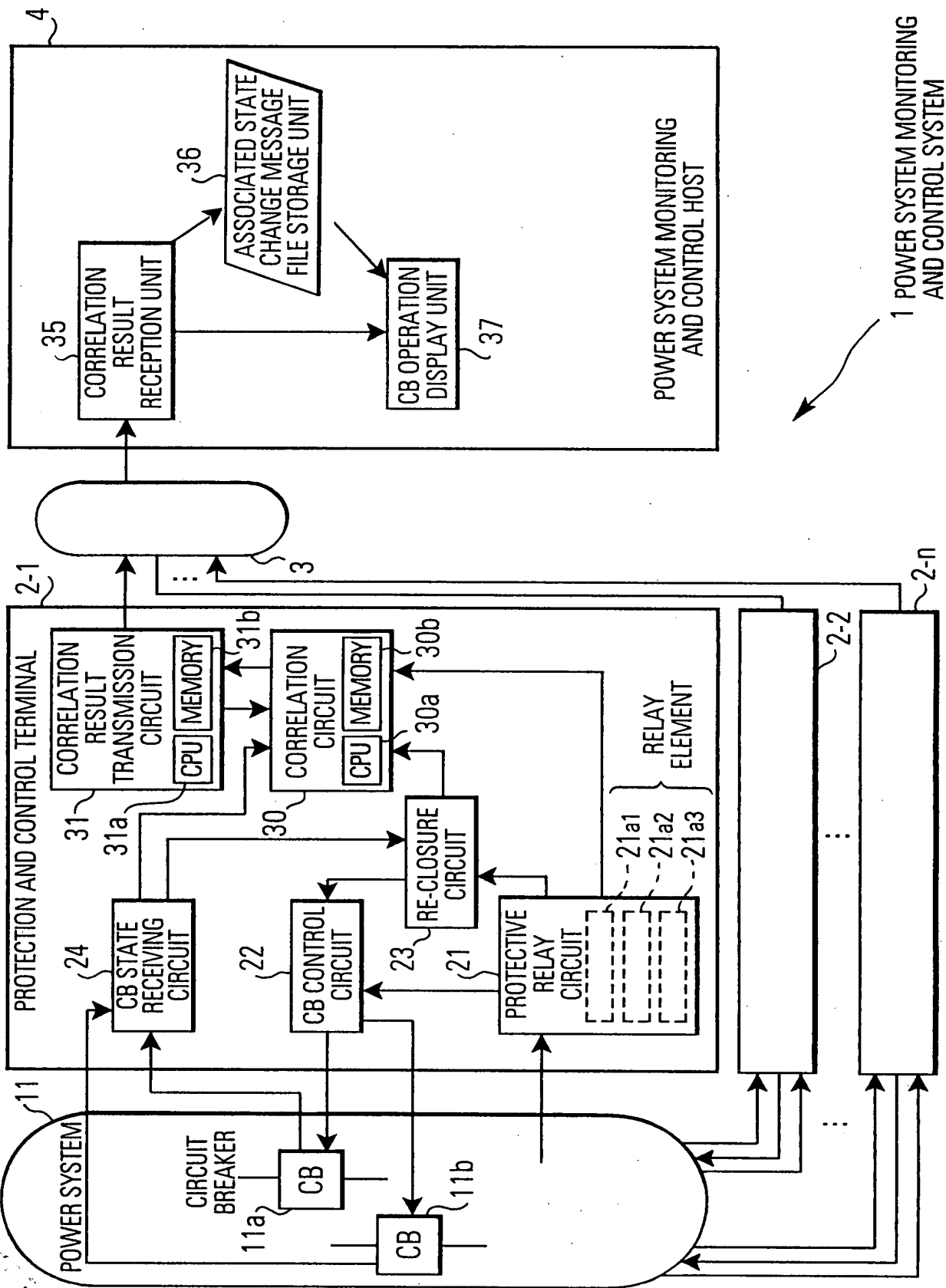


FIG.3

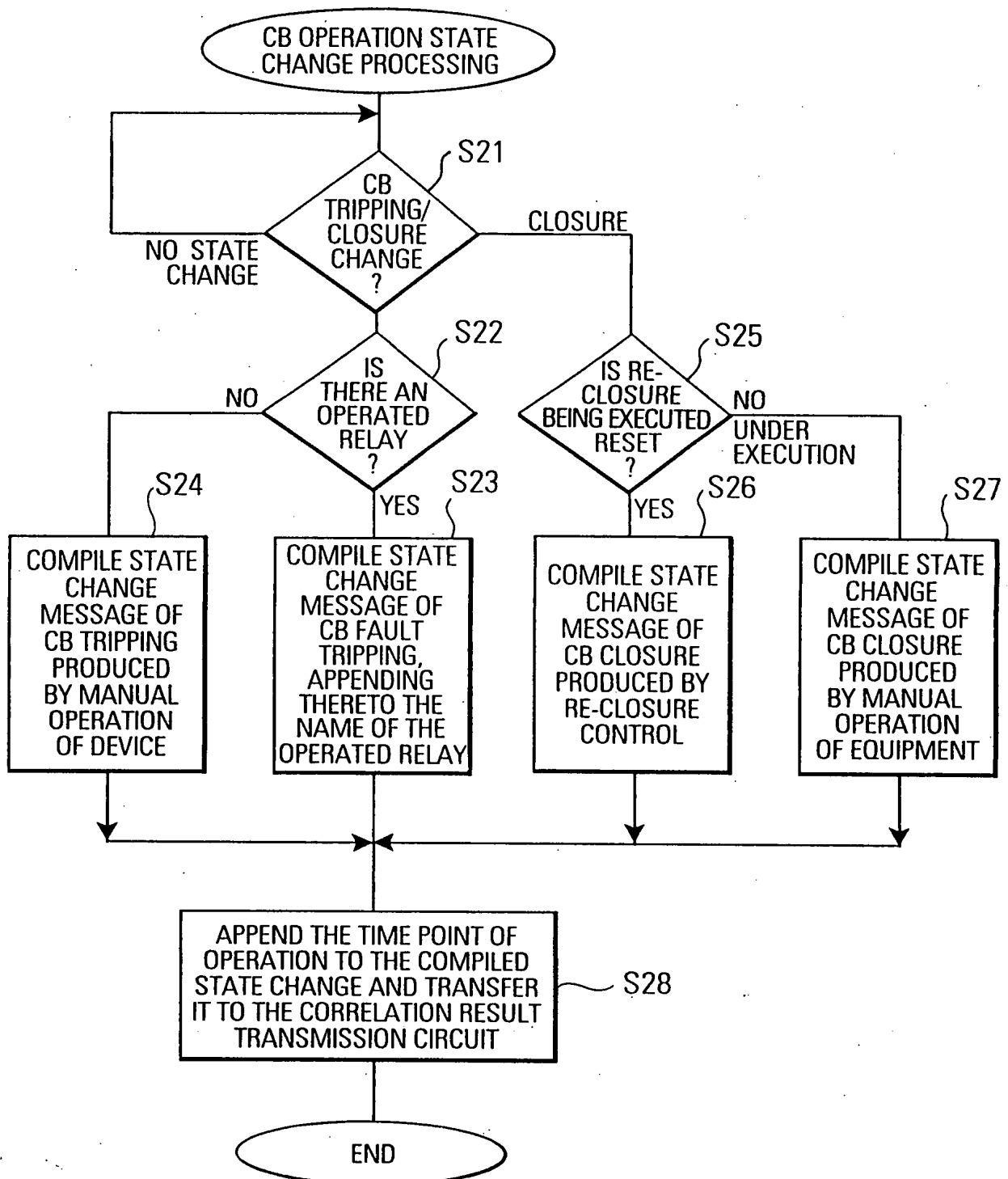


FIG.4

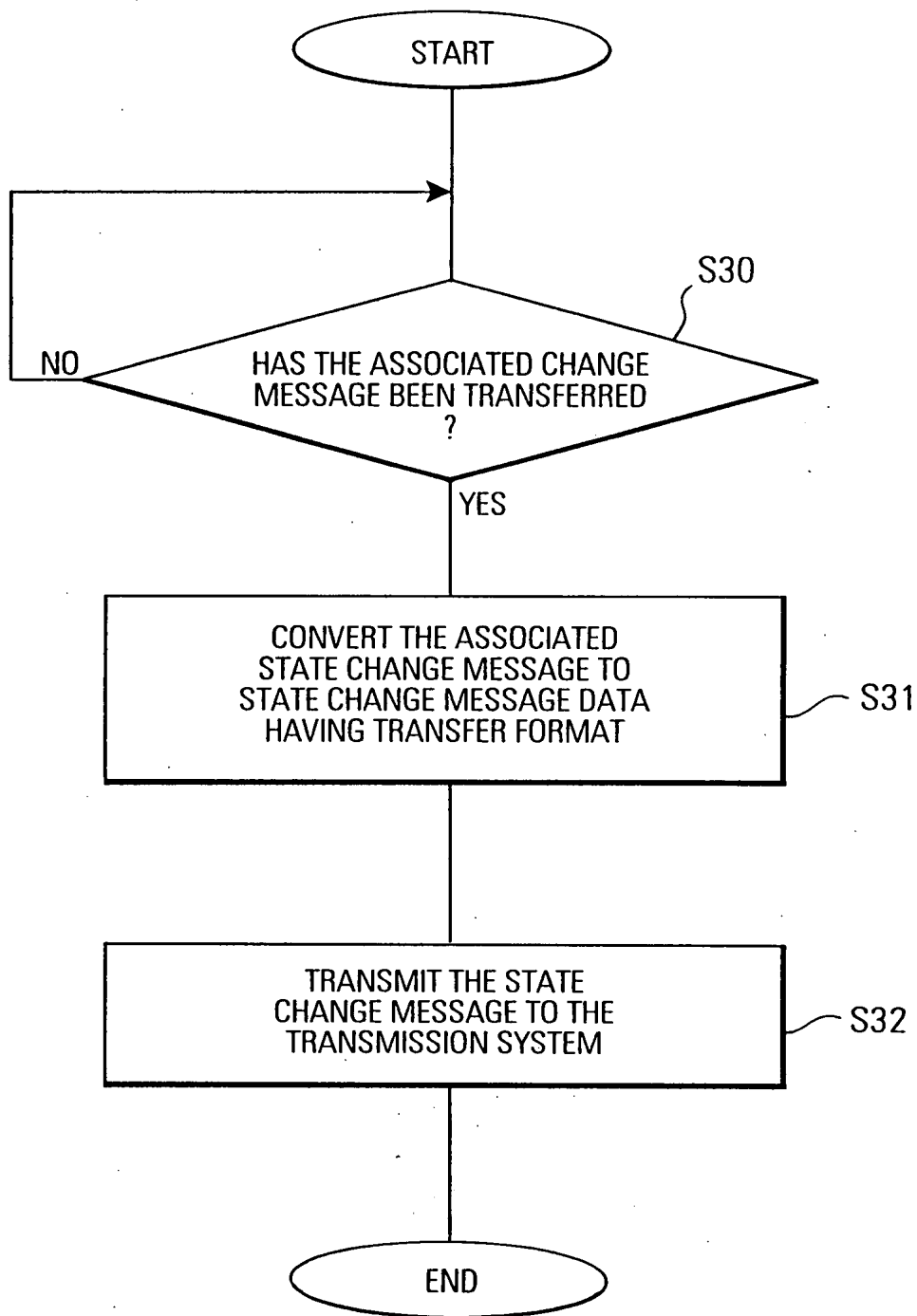


FIG.5

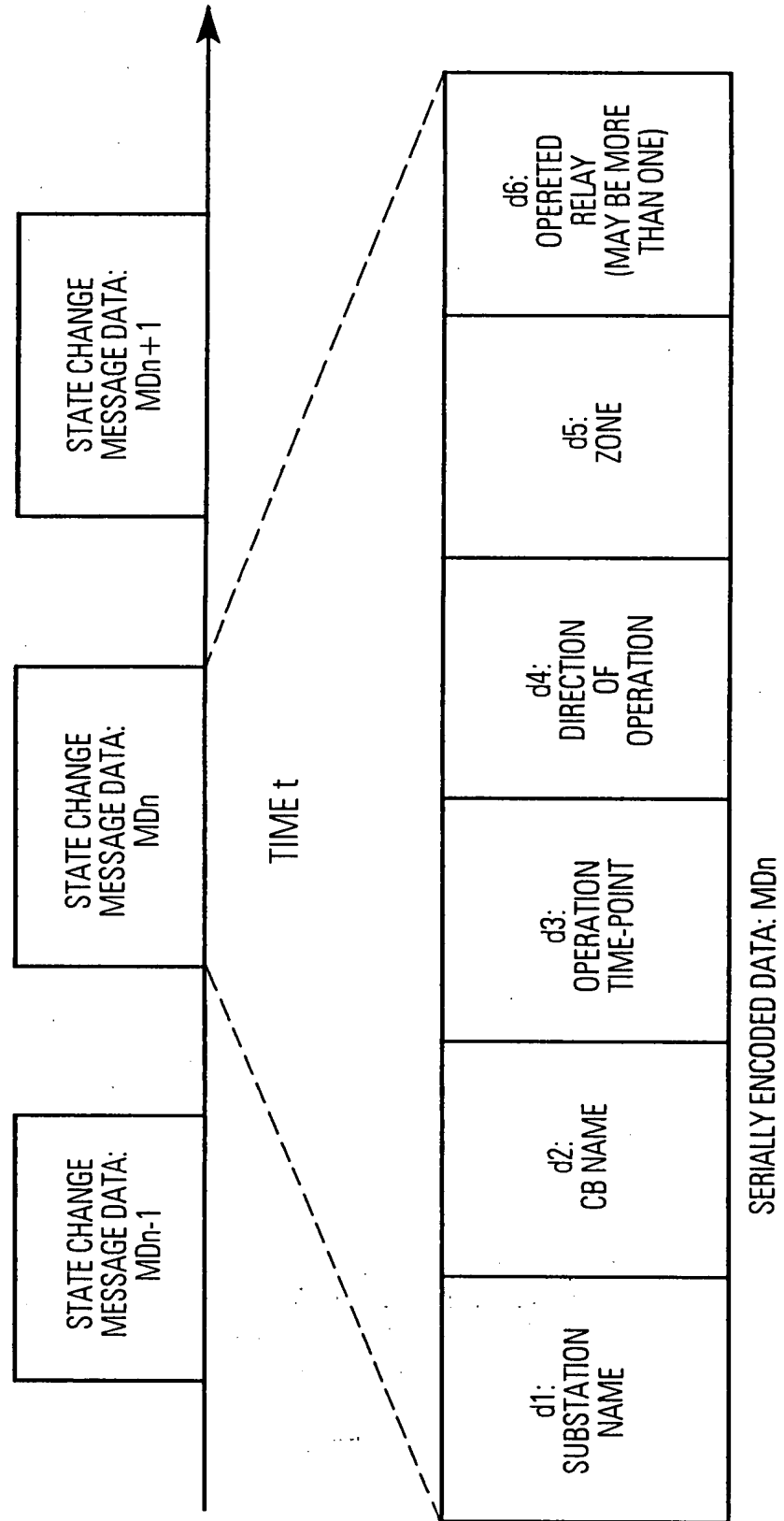


FIG.6

	d1	d2	d3	d4	d5	d6
MD1	SUBSTATION A	XY TRANSMISSION LINE 2L CB	10:10:10	TRIP	FAULT STATE CHANGE	MAIN PROTECTION (GROUND FAULT) BACKUP GROUND FAULT
MD2	SUBSTATION A	XY TRANSMISSION LINE 2L CB	10:10:11	CLOSE	RE-CLOSURE SUCCEEDED	
MD3	SUBSTATION B	XY TRANSMISSION LINE 1L CB	10:10:01	CLOSE	MANUAL STATE CHANGE	

FIG. 7

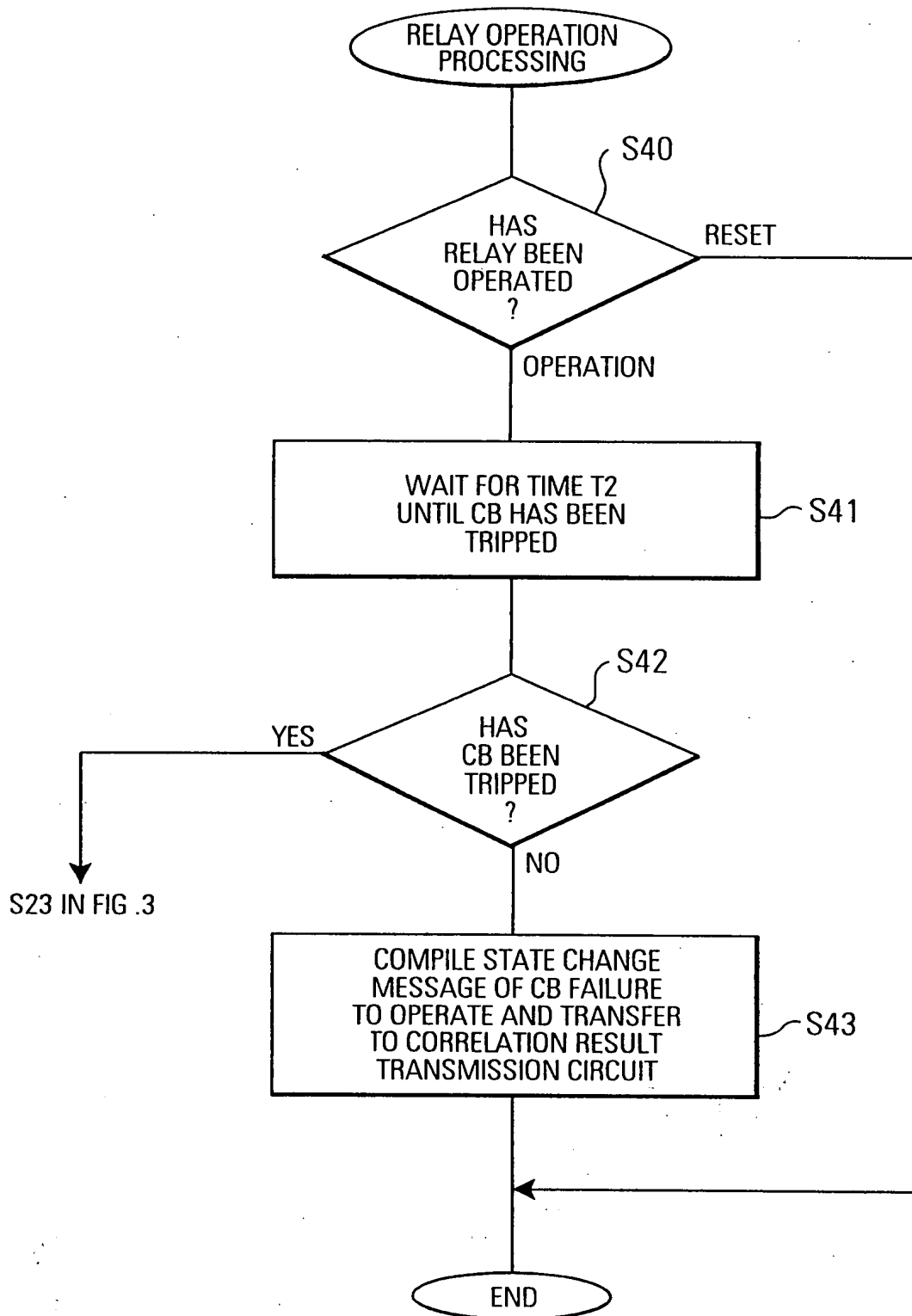


FIG.8

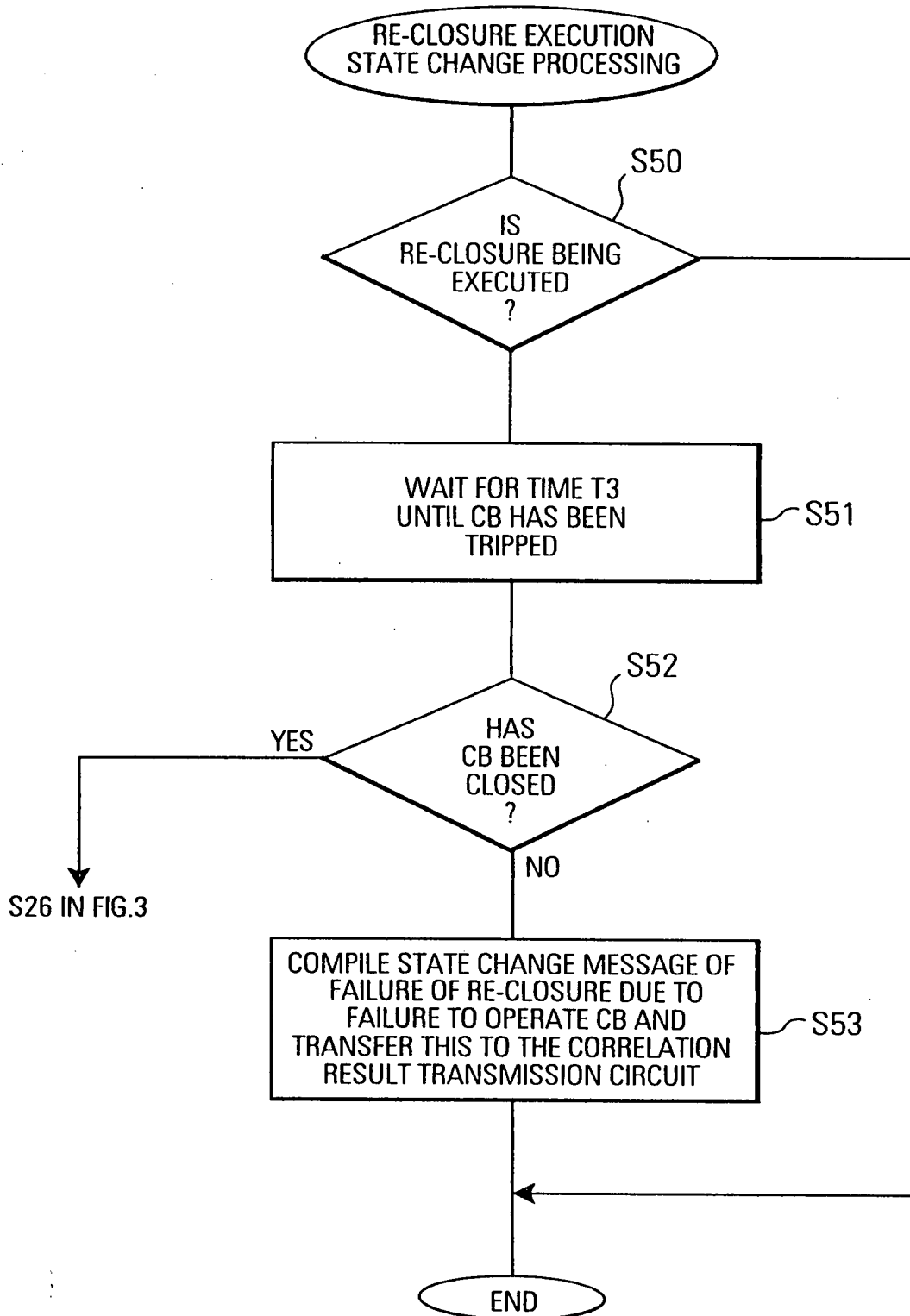


FIG. 9

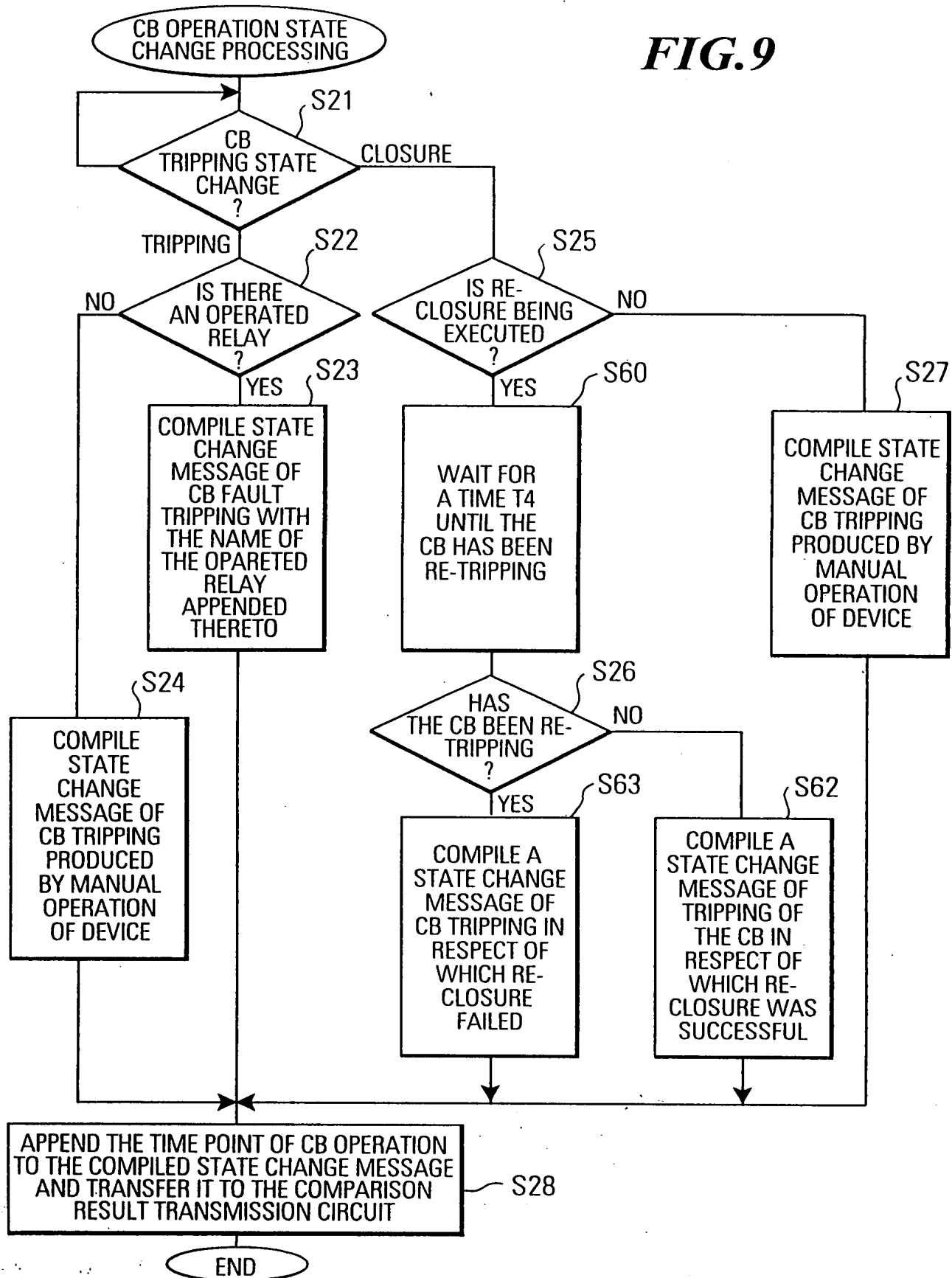


FIG. 10

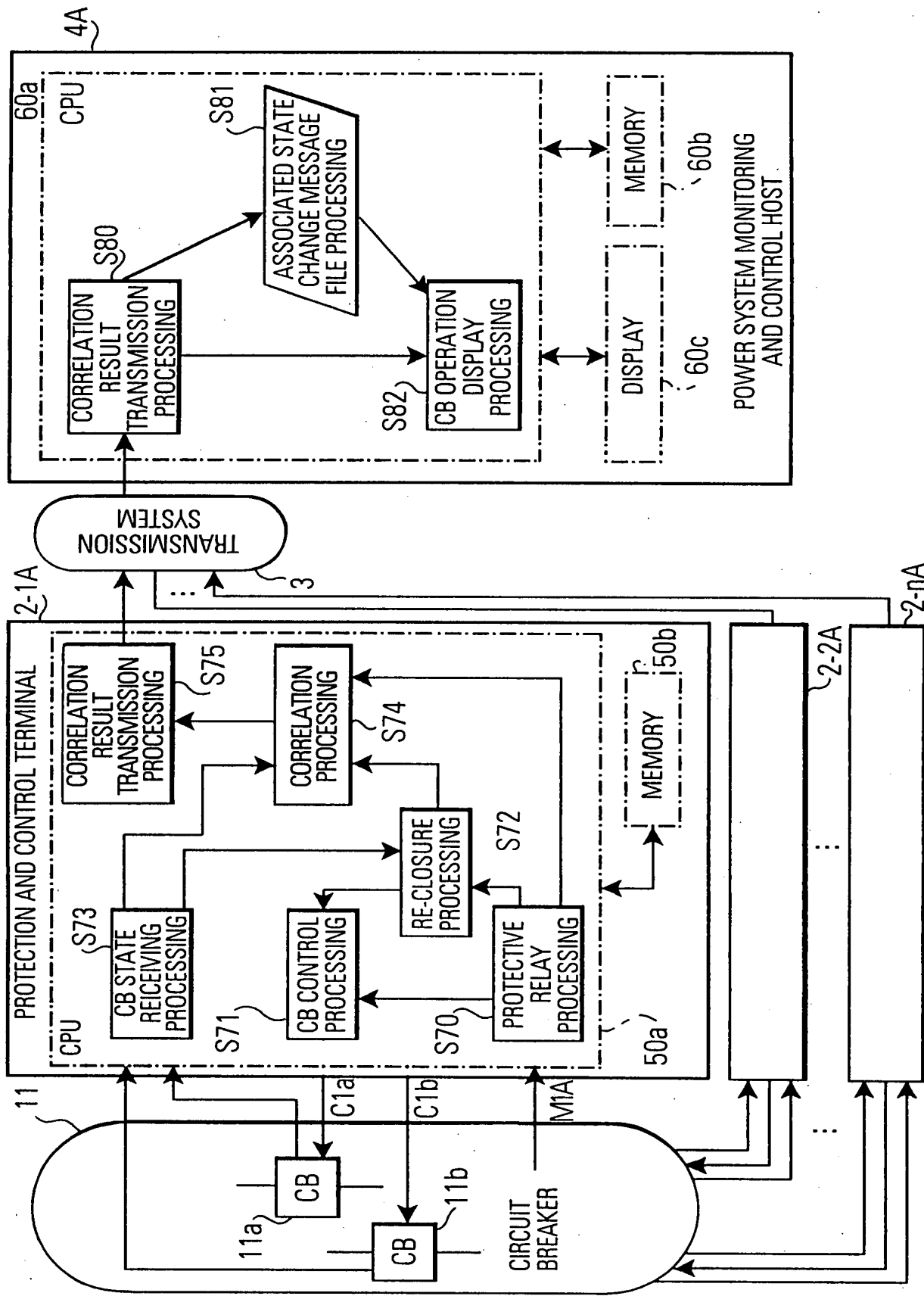


FIG. 11

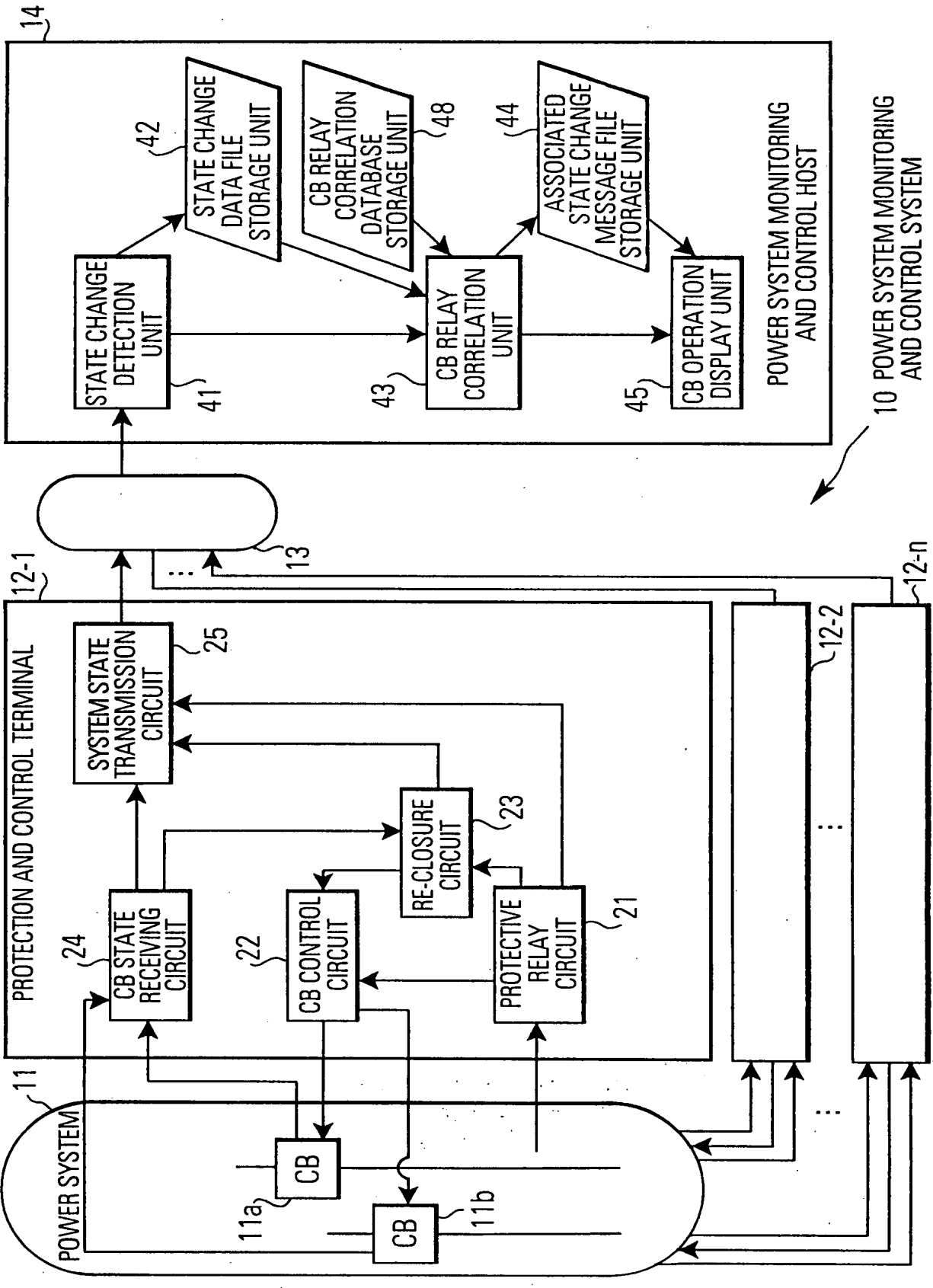


FIG.12

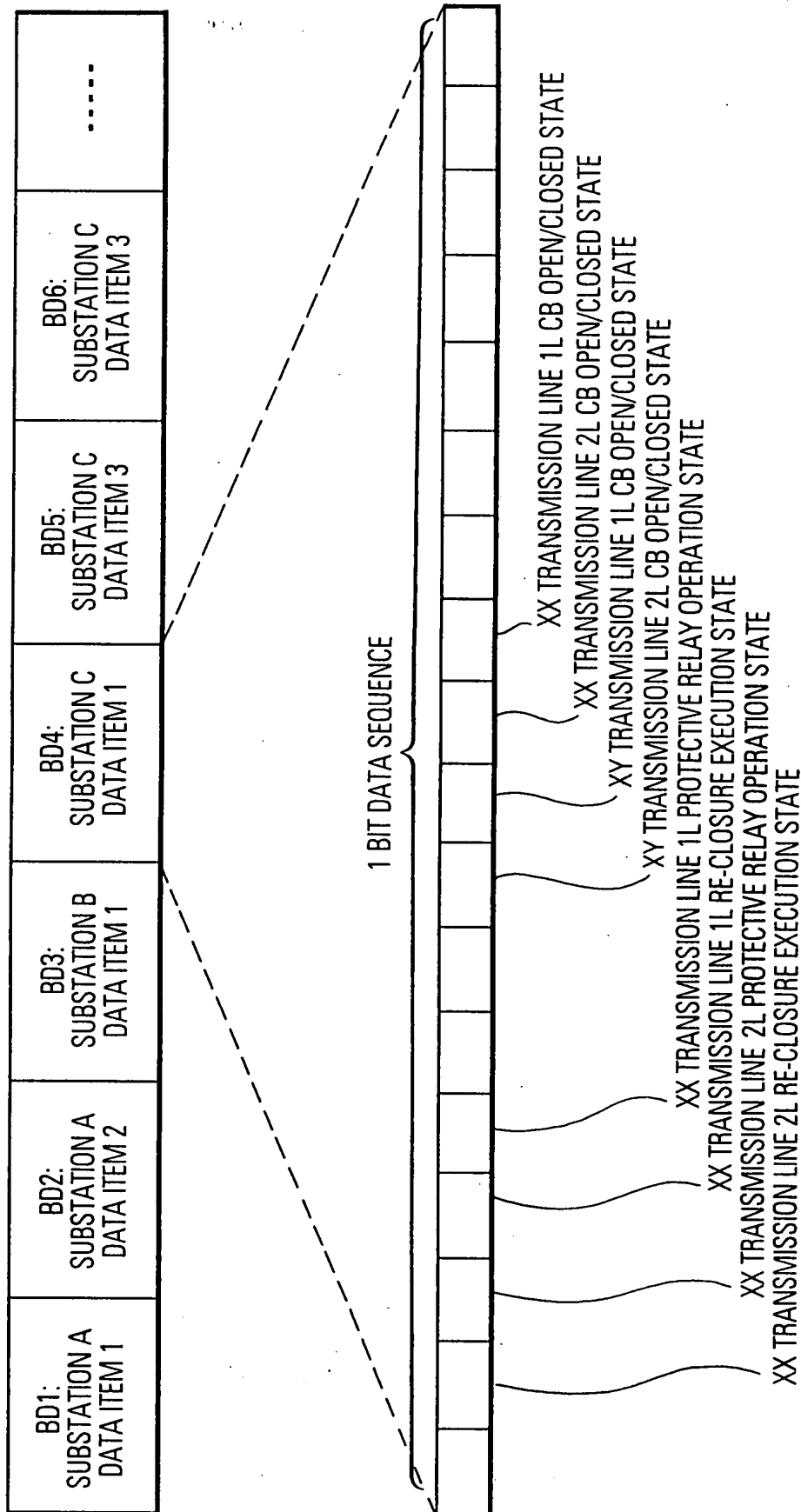


FIG.13

D1	JANUARY 19th 22: 01: 15	SUBSTATION C	XX TRANSMISSION LINE 1L	MAIN PROTECTION (GROUND FAULT)	OPERATE
D2	JANUARY 19th 22: 01: 15	SUBSTATION C	XX TRANSMISSION LINE 1L	CB	TRIP
Dx1	JANUARY 19th 22: 01: 15	SUBSTATION B	FF TRANSMISSION LINE 1L	MAIN PROTECTION (GROUND FAULT)	OPERATE
Dx2	JANUARY 19th 22: 01: 15	SUBSTATION Z	YY TRANSMISSION LINE 2L	CB	OPERATE
Dx3	JANUARY 19th 22: 01: 15	SUBSTATION A	FF TRANSMISSION LINE 1L	CB	TRIP
Dx4	JANUARY 19th 22: 01: 16	SUBSTATION A	FF TRANSMISSION LINE 1L	MAIN PROTECTION (GROUND FAULT)	OPERATE
Dx5	JANUARY 19th 22: 01: 16	SUBSTATION B	FF TRANSMISSION LINE 1L	CB	TRIP

FIG.14

M	JANUARY 19th 22: 01: 15	SUBSTATION C	XX TRANSMISSION LINE 1L	CB	FAULT TRIP	MAIN PROTECTION (GROUND FAULT)	OPERATE
M1	JANUARY 19th 22: 01: 15	SUBSTATION Z	YY TRANSMISSION LINE 2L	CB	FAULT TRIP	MANUAL OPERATE	
M2	JANUARY 19th 22: 01: 15	SUBSTATION A	FF TRANSMISSION LINE 1L	CB	FAULT TRIP	MAIN PROTECTION (GROUND FAULT)	OPERATE
M3	JANUARY 19th 22: 01: 15	SUBSTATION B	FF TRANSMISSION LINE 1L	CB	FAULT TRIP	MAIN PROTECTION (GROUND FAULT)	OPERATE

FIG.15

CB: SUBJECT OF CORRELATION	ASSOCIATION WITH DIRECTION OF TRIPPING	ASSOCIATION WITH DIRECTION OF CLOSURE
.
SUBSTATION C: XX TRANSMISSION LINE 1L CB	1) SUBSTATION C: XX TRANSMISSION LINE 1L MAIN PROTECTION (GROUND FAULT) 2) SUBSTATION C: XX TRANSMISSION LINE 1L BACKUP PROTECTION 3) SUBSTATION C: BUS PROTECTION	SUBSTATION C: XX TRANSMISSION LINE 1L RE-CLOSE
SUBSTATION C: XX TRANSMISSION LINE 2L CB	1) SUBSTATION C: XX TRANSMISSION LINE 2L MAIN PROTECTION (GROUND FAULT) 2) SUBSTATION C: XX TRANSMISSION LINE 2L BACKUP PROTECTION 3) SUBSTATION C: BUS PROTECTION	NO ASSOCIATION
.

FIG.16

